

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-8. (canceled).

9. (new): A computer system having a virtualized input/output (I/O) device, comprising:

a client computer comprising a first processor, a first hypervisor and a first operating system (OS) operating on the first hypervisor; and

a server computer comprising a second processor, a second hypervisor, a second OS operating on the second hypervisor, and a physical I/O device,

wherein said client computer and said server computer are connected via a network,

wherein said first hypervisor comprises:

memory protection interrupt processing means called by a memory protection interrupt that is generated when a read or a write occurs to a particular memory address in said first processor,

logical I/O device access detecting means that is called by said memory protection interrupt processing means to detect a logical I/O device access, which is directed to said physical I/O device of said server computer, and

a virtual I/O client processing module for transmitting to said server computer, via said network, a command to access said logical I/O device when said logical I/O device access is detected, and

wherein said second hypervisor comprises a virtual I/O server processing module for receiving said command via said network and for issuing a command to said physical I/O device.

10. (new): The computer system having a virtualized I/O device according to claim 9, wherein communication between said client computer and said server computer is performed on a protocol, which is determined by said first and second hypervisors.

11. (new): The computer system having a virtualized I/O device according to claim 9, wherein communication between said client computer and said server computer is performed on a protocol of said second OS, which operates on said server computer.

12. (new): The computer system having a virtualized I/O device according to claim 9, wherein said virtualized I/O client processing transmits to said server computer said command to access said logical I/O device, after converting said command into a protocol, which the second OS of said server computer is capable of interpreting.

13. (new): The computer system having a virtualized I/O device according to claim 9, wherein said logical I/O device access detecting means detects said logical I/O device access when a cause of said memory protection interrupt is either a read command issuance or a write command issuance to said logical I/O device.

14. (new): A computer system having a virtualized I/O device according to claim 9, wherein said virtual I/O client processing module comprises:

means for determining whether data written in a memory address for controlling an I/O device is a read command or a write command;

means for, when the data is a read command, transmitting to said server computer the read command and a parameter of the read command;

means for receiving data read out in I/O read processing by said server computer;

means for, when the data is a write command, transmitting to said server computer the write command and a parameter of the write command; and

means for transmitting data to be written to said server computer.